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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:

☒ Practitioners associated with the Customer Number:

49579

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:

☒ The address associated with Customer Number:

26111

OR

<input type="checkbox"/> Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone			Fax

Assignee Name and Address:

Broadcom Corporation
16215 Alton Parkway
Irvine, California 92618-3616

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/86 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

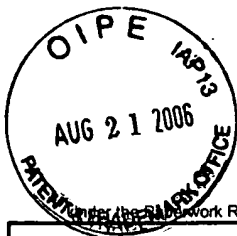
The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	12/13/05
Name	Dee Henderson	Telephone	(949) 926-5958
Title	Senior Manager, Intellectual Property Administration		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

384,933

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



STATEMENT UNDER 37 CFR 3.73(b)

1875.1210004

Applicant/Patent Owner: Alexandre Kral

Application No./Patent No./Control No.: 10/647,588 Filed/Issue Date: August 26, 2003

Entitled:

Local Oscillator Apparatus and Method

Broadcom Corporation

(Name of Assignee)

a corporation

(Type of Assignee: corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest
(The extent (by percentage) of its ownership interest is _____ %)

in the patent application/patent identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or a true copy of the original assignment is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Jeffrey T. Helvey
Signature

Jeffrey T. Helvey, Reg. No. 44,757

Printed or Typed Name

Attorney for Applicant

Title

8/21/06
Date

(202) 371-2600

Telephone Number

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

ASSIGNMENT

**DO NOT FORWARD
TO ASSIGNMENT BRANCH
NOT FOR RECORDATION**

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: (1) Myles Wakayama, (2) Dana Vincent Laub, (3) Frank Carr, (4) Afshin Mellati, (5) David S. P. Ho, (6) Hsiang Bin Lee, (7) Chun-Ying Chen, (8) James Y. C. Chang, (9) Lawrence M. Burns, (10) Young Joon Shin, (11) Patrick Pai, (12) Iconomos A. Koullias, (13) Ron Lipka, (14) Luke Thomas Steigerwald, the undersigned inventors hereby sell and assign to Broadcom Corporation (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),
☒ and throughout the world,

(a) in the invention known as Integrated Direct Conversion Satellite Tuner for which application(s) for patent in the United States of America has (have) been executed by the undersigned on (1) 1/16/02, (2) 1-15-02, (3) _____, (4) 1/16/2002, (5) 2/6/02, (6) 1/15/2002, (7) 1-15-02, (8) 1/15/2002, (9) 1/16/02, (10) 2/1/02, (11) 2/23/02, (12) 1/31/02, (13) 1/23/02, (14) 1/23/02, (also known as United States Application No. 09/995,695, filed November 29, 2001), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

RES
4/10/02

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; John M. Covert, Esquire, Registration No. 38,759; Linda E. Alcorn, Esquire, Registration No. 39,588; Lawrence B. Bugaisky, Esquire, Registration No. 35,086; Donald J. Featherstone, Esquire, Registration No. 33,876; and Robert C. Millonig, Esquire, Registration No. 34,395, all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, and James D. Bennett, Registration No. 37,550, and David J. Rosmann, Registration No. 43,059, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: 1/16/2002 Signature of Inventor: Myles Wakayama
Myles Wakayama

Date: 1-15-02 Signature of Inventor: Dana Vincent Laub
Dana Vincent Laub

Date: _____ Signature of Inventor: _____
Frank Carr

Date: 1/16/2002 Signature of Inventor: Afshin Mellati
Afshin Mellati

Date: _____ Signature of Inventor: _____
David S. P. Ho

Date: 1/15/2002 Signature of Inventor: Hsiang Bin Lee
Hsiang Bin Lee

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: _____ Signature of Inventor: _____
Myles Wakayama


Date: _____ Signature of Inventor: _____
Dana Vincent Laub

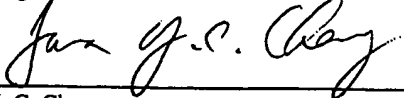
Date: _____ Signature of Inventor: _____
Frank Carr

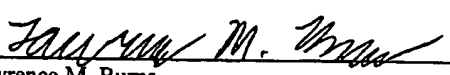
Date: _____ Signature of Inventor: _____
Afshin Mellati

Date: 6 Feb 2002 Signature of Inventor: 
David S. P. Ho

Date: _____ Signature of Inventor: _____
Hsiang Bin Lee

Date: 1/15/2002 Signature of Inventor: 
Chun-Ying Chen

Date: 1/15/2002 Signature of Inventor: 
James Y. C. Chang

Date: 1/16/02 Signature of Inventor: 
Lawrence M. Burns

Date: _____ Signature of Inventor: _____
Young Joon Shin

Date: _____ Signature of Inventor: _____
Patrick Pai

Date: _____ Signature of Inventor: _____
Iconomos A. Koullias


Date: _____ Signature of Inventor: _____
Ron Lipka

Date: _____ Signature of Inventor: _____
Luke Thomas Steigerwald

Date: _____ Signature of Inventor: _____
Chun-Ying Chen

Date: _____ Signature of Inventor: _____
James Y. C. Chang

Date: _____ Signature of Inventor: _____
Lawrence M. Burns

Date: 2/1/02 Signature of Inventor: 
Young Joon Shin

Date: _____ Signature of Inventor: _____
Patrick Pai

Date: _____ Signature of Inventor: _____
Iconomos A. Koullias

Date: _____ Signature of Inventor: _____
Ron Lipka

Date: _____ Signature of Inventor: _____
Luke Thomas Steigerwald

Date: _____ Signature of Inventor: _____
Chun-Ying Chen

Date: _____ Signature of Inventor: _____
James Y. C. Chang

Date: _____ Signature of Inventor: _____
Lawrence M. Burns

Date: _____ Signature of Inventor: _____
Young Joon Shin

Date: 2/28/02 Signature of Inventor: 
Patrick Pai

Date: _____ Signature of Inventor: _____
Iconomos A. Koullias

Date: _____ Signature of Inventor: _____
Ron Lipka

Date: _____ Signature of Inventor: _____
Luke Thomas Steigerwald


Date: _____ Signature of Inventor: _____
Chun-Ying Chen

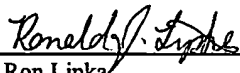
Date: _____ Signature of Inventor: _____
James Y. C. Chang

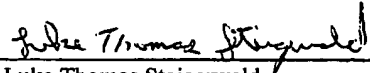
Date: _____ Signature of Inventor: _____
Lawrence M. Burns

Date: _____ Signature of Inventor: _____
Young Joon Shin

Date: _____ Signature of Inventor: _____
Patrick Pai

Date: 1/31/02 Signature of Inventor: 
Iconomos A. Koullias

Date: 1/23/02 Signature of Inventor: 
Ron Lipka

Date: 1/23/02 Signature of Inventor: 
Luke Thomas Steigerwald

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IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: _____	Signature of Inventor: _____ Myles Wakayama
Date: _____	Signature of Inventor: _____ Dana Vincent Laub
Date: <u>9/20/02</u>	Signature of Inventor: <u>[Signature]</u> Frank Carr
Date: _____	Signature of Inventor: _____ Afshin Mellati
Date: _____	Signature of Inventor: _____ David S. P. Ho
Date: _____	Signature of Inventor: _____ Hsiang Bin Lee

ASSIGNMENT

Page 1 of 3

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Date: _____ Signature of Inventor: _____
Myles Wakayama

Date: _____ Signature of Inventor: _____
Dana Vincent Laub

Date: _____ Signature of Inventor: _____
Frank Carr

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Afshin Mellati

Date: _____ Signature of Inventor: _____
David S. P. Ho

Date: _____ Signature of Inventor: _____
Hsiang Bin Lee

Date: _____ Signature of Inventor: _____

Date: _____ Signature of Inventor: _____
Chun-Ying Chen

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James Y. C. Chang

Date: _____ Signature of Inventor: _____
Lawrence M. Burns

Date: _____ Signature of Inventor: _____
Young Joon Shin

Date: _____ Signature of Inventor: _____
Patrick Pai

Date: _____ Signature of Inventor: _____
Iconomos A. Koullias

Date: _____ Signature of Inventor: _____
Ron Lipka

Date: _____ Signature of Inventor: _____
Luke Thomas Steigerwald

Date: Nov 28th, 2002 Signature of Inventor: _____
Alexander Kral